CITY OF WHEATLAND
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Solar Checklist

Attached are copies of handouts for **Central Inverter Systems for Single Family Dwellings** and **Microinverter Systems for Single Family Dwellings.** Provide the information request by completing the appropriate form for your submittal. Completion of this form shall allow for an expedited plan check in the future. The temperature correction factor on the Central Inverter Systems form for this jurisdiction is 1.12.

_____1. Plans shall be wet-signed by the specified California licensed electrical contractor or a California licensed electrical engineer. Provide engineer stamp with signature or authorized individual for CSLB license number listed on your submittal. _____1a. Electronic signature will be acceptable with printed name included.

_____2. Clarify and indicate on drawings path of conduit from PV modules to junction / disconnect, inverter, and main service panel. Specify whether placement is on roof or below. Indicate type, size, and number of wires in each conduit.

_____3. Note on plans that a redlined as-build will be required to be submitted at the final inspection if changes in the conduit path shown are made. We recommend that you submit an additional conduit path sheet for the final inspection which after redlining changes, will be turned over to the Fire Department.

_____4. Note on the plans that the 3"Fire Set Back shall include 24 inches into the interior side of the exterior wall for fire department personnel safety. Side overhangs greater than 12" will require fire setbacks greater than the 3 feet. A 3' setback down from the ridge is required and an 18 inch setback from valleys are required.

_____5. Note on the plans that conduits placed under the roofing structure shall be a minimum 12 inch below the roof sheathing and above the ceiling insulation, so that smoke ventilation penetrations through the roof during a fire will not damage those conduits.

_____6. Provide a mounting detail which specifies standoff distance from the conduit to the roof covering per CEC Table 30.25(B)(2)(c).

_____7. Note on the plans that the PV backfeed breaker shall be placed at the end of the buss bar at the furthest position from the main breaker per CEC 690.64(B)(7). Signage is required adjacent to this breaker which states: "Do Not Relocate This Breaker".

_____8. Note on the plans that the 2010 California Residential Code (CRC) requires Smoke alarms and Carbon Monoxide alarms to be installed into the existing dwelling. The required Smoke alarms shall be installed in each sleeping area and hallway leading to sleeping areas. Carbon Monoxide detectors shall be located in hallways leading to sleeping areas as required per sections R314 & R315 within the 2010 California Residential Code (CRC). Access for testing and verification of detectors will be required at final inspection.

_____9. Note on the plans that the installer shall provide at the final inspection a ladder for access to the roof mounted panels. Also a ladder for access to attic spaces and someone to open junction boxes and panels for verification of wire types, wire sizes, connections, grounding and labeling throughout the installation.

_____10. Note on the plans that the location of warning signage on conduits shall be every 10 feet and within 1 foot of turns or bends and within 1 foot above and below penetrations of roof/ceiling assemblies, walls, or barriers per CRC 331.2.4.

_____11. Note on plans that when line side taps are utilized, the wiring in the existing panel shall be neat and of good workmanship or redone. The taps shall be listed for that application. The amperage rating of the tap and conductor shall be equal to the combined existing loading and new solar loading.

_____12. Inverters that are not in line of sight of the Main Panel and PV OCPD are required to have a disconnect adjacent to the inverter.

_____13. EMT and IC conduits shall be supported every 10 feet and flex conduit installed in attics shall be supported every 4.5 feet.

_____14. Note on the plans that an irreversible method of attaching the new grounding equipment conductor to the existing GEC at the main disconnect panel shall be provided.

Structural Comments:

_____15. Specify and show the actual locations of the supports for the array on a roof layout with supporting member indicated. The maximum specified span of up to 6 foot imposes additional concentrated loads on individual rafter members or trusses. **Stagger placement of supports to ALL rafters/trusses to distribute additional point loading to ALL repetitive rafter/truss members under the array.** Structural calculations when provided must show multiple points loading to individual rafter / truss.